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CRMP-5 neuronal autoantibody: marker of lung cancer and thymoma-related autoimmunity.

Yu Z, Kryzer TJ, Griesmann GE, Kim K, Benaroch EVA.

Department of Immunology, Mayo Clinic, Rochester, MN
USA.

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We have defined a new paraneoplastic immunoglobulin G autoantibody specific for CRMP-5, a previously unknown neuronal cytoplasmic protein of the collapsin response-mec. CRMP-5 is in adult central and peripheral neurons, including and in small-cell lung carcinomas. Since 1993, our Clinical Neuroimmunology Laboratory has detected CRMP-5-IgG in patients among approximately 68,000 whose sera were submitted for standardized immunofluorescence screening because a subacute neurological presentation was suspected to be paraneoplastic. CRMP-5 autoantibody as frequent as PCA-1 (anti-Yo) autoantibody, second only to ANNA-1 (anti-Hu). Clinical i

obtained for 116 patients, revealed multifocal neurological remarkable were the high frequencies of chorea (11%) and neuropathy (17%, including 10% loss of olfaction/taste, 7% neuropathy). Other common signs were peripheral neuropathy (31%), cerebellar ataxia (26%), subcortical dementia (25%), and neuromuscular junction disorders (12%). CSF fluid was inflammatory in 86%, and CRMP-5-IgG in 37% significantly exceeded serum titers. Lung carcinoma (mostly small-cell) was found in 77% of patients; thymoma was in 10%. Those remaining had miscellaneous neoplasms; all but two were smokers. Serum IgG in all cases bound to recombinant CRMP-5 (predominantly N-terminal epitopes), but not to human CRMP-3.

PMID: 11220734 [PubMed - indexed for MEDLINE]

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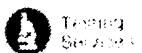
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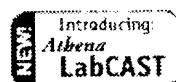
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Recombx™ CV2 Autoantibody Test - #123



Type of Disorder: Paraneoplastic Syndromes
Disease(s) tested for: CV2 paraneoplastic syndrome
Synonym(s): Paraneoplastic neurological disorders (PNDs)
 POP66
 ULIP

Test Details

Test Code: 123
Profiles that Contain this Test: [NeoCerebellar Degeneration Paraneoplastic Profile](#)
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[NeoEncephalitis Paraneoplastic Profile](#)
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Price: \$215
Special Notes: NEW from Athena Diagnostics as of 10/2/2000.
 CV2 is also known as POP66 and ULIP.
References: [Paraneoplastic Syndromes](#)

Technical Information

Utility: Detection of anti-CV2 autoantibodies using recombinant human antigens.
Methodology: Western blot
Reference Value: Negative
CPT Code(s): 84182 (1)
Patents: Pending

Shipping Considerations

Specimen Type: Serum preferred or whole blood
Minimum Volume: 1 (2ml) serum or 1 (8.5ml) whole blood
Collection Tube: Red top
Storage Conditions: Refrigerate if not shipped same day. Serum stable up to two weeks. Ship whole blood immediately.
Shipping Options: Room temperature, ship same day

Conditions:

Room temperature, ship same day

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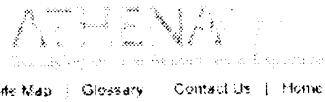
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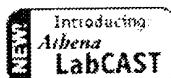
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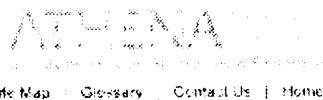
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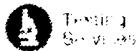
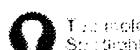
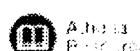
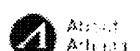
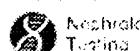
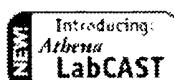
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